Manufacturing Interoperability

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	2003	2004	2005	2006	2007	2008

Themes
- An interoperability testing and demonstration infrastructure
- Testing of key integration standards for today's manufacturers
- Development of semantic technologies for tomorrow's integration needs

Principal Activities
- Establish a program TAB
- Establish B2B Test Bed
- Establish the Interoperability Test Bed (ITB)
- Develop conformance tests for I++, DML
- Establish the Virtual Manufacturing Environment (VME)
- Integrate suite of stds & tests to support product, process, operations & supply chain info exchange
- Develop semantic integration framework
- Plan semantic integration tactic
- Develop process standard in formal logic
- Develop & apply ontologies to primary areas of mfg
- Develop tools & techniques for semantic integration
- Test the tools developed on actual industry cases

Deliverables
- Metrology Test Bed
- Enhanced ITB
- Demonstrated apps integration
- Ontology specs for primary areas of mfg
- Simulation Stds Consortium
- B2B Test Bed
- Suites of stds identified
- VME Facility
- Tools to capture semantic interfaces
- PSL Standard
- Gap Analysis
- Integration Study

Impacts
- STEP Impact published
- Improved stds for construction industry
- Reduced inventory costs
- Reduced time and cost to develop and validate stds
- Accelerated simulation stds through IEEE/SISO
- Recognition of interoperability benefits
- Recognition of semantics benefits
- Increased integration of product & process info across lifecycle